

SULEYMANOV, G.Y.

Changing cork setting in crystallizer branch pipes.
Sbor.rats.predl.vnedr.v proizvod. no.1:35-36 '61.

(MIRA 14:7)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Coke industry--Equipment and supplies)

SULEYMANOV, I.

Restoration of the synovial membrane and characteristics of its vascularization following experimental synovectomy of the knee joint. Ortop. travm. i protez. 25 no.9:43-48 S '64. (MIRA 18:4)

1. Iz Leningradskogo instituta khirurgicheskogo tuberkuleza (dir. - prof. D.K.Khokhlov, nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR prof. P.G.Kornev). Adres avtora: Leningrad K-21, Institutskaya ul., d.6, Leningradskiy institut khirurgicheskogo tuberkuleza.

SULEYMANOV, Ismail; SHOMAKHUMUDOV, A., red.; MEL'NIKOV, A., tekhn.red.

[Uzbek steel] ~~Ўzbekiston pilati~~. Toshkent, ~~Ўzbekiston SSR~~
davlat nashrieti, 1959. 72 p. (MIRA 14:3)
(Uzbekistan--Steel)

SULEYMANOV, I.

Restoration of the knee joint bursa following experimental
synovectomy. Ortop., travm. i protez. 24 no.12:41-47 D '63.
(MIRA 17:7)

1. Iz Leningradskogo instituta khirurgicheskogo tuberkuleza
(direktor - prof. D.K. Khokhlov, nauchnyy rukovoditel' -
deystvitel'nyy chlen AMN SSSR prof. P.G. Kornev). Adres avtora:
Leningrad K-21, Institutskaya ul., d.6, leningradskiy institut
khirurgicheskogo tuberkuleza.

MARKOSYAN, A.A.; MARDZHANYAN, G.M., kand. biolog. nauk; KARYAN, A.A., aspirant; SHARAFUTDINOV, Sh.A.; RASULOV, F.K.; SVANIDZE, N.V., starshiy nauchnyy sotrudnik; RABINOVICH, I.M., starshiy nauchnyy sotrudnik; DERYABIN, V.I.; SULEYMANOV, I., mladshiy nauchnyy sotrudnik; SHEVTSOV, S.I., starshiy nauchnyy sotrudnik (TSelinnyy kray)

From the practices in the use of poisonous chemicals. Zashch. rast. ot vred. i bol. 9 no.9:21-23 '54. (MIRA 17:11)

1. Armyanskiy institut zemledeliya (for Markosyan, Mardzhanyan, Karyan).
2. Sredneaziatkiy institut zashchity rasteniy (for Sharafutdinov, Rasulov).
3. Zakavkazskaya opyt'naya stantsiya Vsesoyuznogo nauchno-issledovatel'skogo instituta lekarstvennykh i aromaticheskikh rasteniy (for Svanidze, Rabinovich).
4. Zaveduyushchiy otdelom zashchity rasteniy Samarkandskoy opyt'noy stantsii (for Deryabin).
5. Samarkandskaya opyt'naya stantsiya (for Suleymanov).

DERYABIN, V.; MUSAYEV, T., nauchnyy sotrudnik; SULEYMANOV, I., nauchnyy sotrudnik

Preparations against suctorial pests of cotton. Zashch. rast.
ot vred. i bol 10 no.9:25-26 '65. (MIRA 18:11)

1. Samarkandskaya sel'skokhozyaystvennaya opytnaya stantsiya.
2. Zaveduyushchiy otdelom zashchity rasteniy Samarkandskoy sel'skokhozyaystvennoy opytной stantsii (for Musayev, Suleymanov).

SULEYMANOV, I.G.

Foliar feeding of plants with phosphorus. Uch.sap.Kaz.un. 116
no.1:212-216 '55. (MLRA 10:5)

1.Kafedra fiziologii rasteniy i mikrobiologii.
(Plants--Nutrition)
(Phosphorus)

Suleymanov, I.G.
USSR/Soil Science. Mineral Fertilizers.

I-5

Abs Jour: Referat Zh-Biol., No 6, 25 March, 1957, 22489

Author : Suleymanov, I.G.

Inst :

Title : On the Question of Non-Root Plant Nutrition by Phosphorus.

Orig Pub: Uch. zap. Kazanskogo un-ta, 1956, 116, No 1, 212-216

Abstract: Results are given of vegetative and field experiments conducted in the department of plant physiology and microbiology of Kazan University in 1952-1955 by spraying wheat (in the bushing phase) and clover with phosphate solutions, 1 part to 40-20 parts of water. The soil was sod-podzol, the background NK. The spraying of wheat with superphosphate extract (1:20) by comparison with spraying with water, resulted in an increase of the total yield (by 7-12%), of the absolute weight of grain (by 1.2 g), content of protein N (by 0.15%) and the total P in the grain (by 0.02%). The dynamics of P intake depended on the concentra-

Card : 1/2

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SULEYMANOV, I.G.

Effect of phosphorus and potassium fertilizers applied to growing
clover. Uch.zap.Kaz.un. 116 no.5:161-165 '56. (MIRA 10:4)

1. Kafedra fiziologii rasteniy i mikrobiologii.
(Clover) (Phosphorus) (Potassium)

SULEYMANOVA, T. S.

Country : USSR

Category: Cultivated Plants. Grains.

Abstr Jour: RZhBiol., No 11, 1958, No 48877

Author : Suleymanova, T. S. : Dorisoba, T.

Inst : Kazan Affiliate Academy of Sciences USSR

Title : The Effect of Soaking the Seeds Prior to Sowing on
the Development of the Culture.

Orig Pub: Tr. Kazansk. fil. AN SSSR, Ser. biol. n., 1956
(1957), vyp. 4, 109-115

Abstract: The experiments were conducted at the Biological
Station of the Kazan' University. The pre-sowing
treatment with the solutions of different substances
promotes an increase in the growth of the leaves,
especially of the 5, 8th and 9th tiers, vigor of

Card : 1/2

SULEYMANOV, I.G.; GUSEV, N.A.

Professof A.M. Alekseev's 70th birthday. Fiziol. rast. 10 no.6:735-
736 N-D '63. (MIRA 17:1)

SULEYMANOV, Ismagil Gadiyevich; ALEKSEYEV, A.M., prof., nauchn.
red.; BYK, T.N., red.

[Structural and physical properties of protoplasm and its
components as related to the problem of frost resistance
of cultivated plants] Strukturno-fizicheskie svoystva pro-
toplazmy i ee komponentov v svyazi s problemoi mrozo-
ustoichivosti kul'turnykh rastenii. Kazan', Izd-vo Ka-
zanskogo univ., 1964. 199 p. (MIRA 18:4)

1. Zaveduyushchiy kafedroy fiziologii rasteniy i mikro-
biologii Kazanskogo gosudarstvennogo universiteta imeni
V.I.Ul'yanova-Lenina (for Alekseyev).

SULC, Z.

The thiamine metabolism in gravid rats and their embryos.
Bul sc Youg 7 no.4/5:119 Ag-0 '62.

1. Zavod za zastitu zdravlja, Rijeka.

SULEYMANOV, I. K.

Suleymanov, I. K. - "Changes in the Physiological Development and State of Health of Students at the Artisan Schools in the City of Baku between 1947 and 1951." Tbilisi State Medical Inst. Baku, 1950 (Dissertation for the Degree of Candidate in Medical Sciences).

So: Kaizhmaya Letopis', No. 10, 1950, pp 115-127

SHILYANOV, I. . .

"Gen. New Species of Small Foraminifera from the Tournaisian of the Ishimbayev
Oil-Bearing Region," Dok. AN, 48. No. 1, 1945. 1945-.

SULEYMANOV, I. S.

USSR/Geology .. Paleontology

Card 1/1 Pub. 22 - 54/62

Authors : Suleymanov, I. S.

Title : New type of Gubkinella and two new types of Heterohellicidae from the upper Senonian stage of south-western Kyzyl-Kuma mountains

Periodical : Dok. AN SSSR 102/3, 623 - 624, May 21, 1955

Abstract : The discovery of new types of shells, which originated during the upper Senonian stage, in the south western Kyzyl-Kuma mountains is announced. One USSR reference (1951). Drawings.

Institution :

Presented by: Academician N. S. Shatskiy, March 12, 1955

15-57-12-16790
Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 12,
pp 13-14 (USSR)

AUTHORS: Babayev, A. G., Suleymanov, I. S.

TITLE: The Upper Cretaceous Deposits in the Northern Part of
the Bukhara Depression (Verkhnemelovyye otlozheniya
severnoy chasti Bukharskoy depressii)

PERIODICAL: Zap. uzbekist. otd. Vses. mineralog. o-va, 1956, Nr 10,
pp 221-239

ABSTRACT: The author investigates the Upper Cretaceous rocks of
the western part of the Bukhar depression, which have
previously been but partially studied. The boundary
between the Upper and Lower Cretaceous series is one
of the most obscure points in the stratigraphy of the
region. The age of the variegated series lying con-
formably between fossiliferous Albian and Cenomanian
beds has been variously treated. From regional

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15-57-12-16790

The Upper Cretaceous Deposits (Cont.)

considerations the author believes that it most likely belongs to the Cenomanian. A study of the Cenomanian rocks permits them to be subdivided into zones characterized by different facies environments. The first of these zones adjoins the Zirabulak-Ziaetdinskiy Mountains; in this locality the Cenomanian is composed of rocks of the Karaiz facies, consisting predominantly of poorly sorted conglomerates, with lenticular structure and sharply varying thickness (from 0.5 m to 15 m). Individual horizons of littoral-marine horizons finger into this unit from the south. One may assume that these zones represent piedmont alluvial fans, deposited from uplifts bordering the Bukhar depression on the north. The Karaiz facies gives way to the south to a zone of littoral-marine deposits, in which horizons with marine fossils are frequently encountered. Still farther south, the marine formations form a continuous sequence. On the north, the Cenomanian deposits range in thickness from 0 to 100 m; on the south they attain a thickness of 350 m. The author divides the Turonian into two zones on the basis of foraminiferal groups; a zone with

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15-57-12-16790

The Upper Cretaceous Deposits (Cont.)

weakly expressed in these sediments than in the Cenomanian and lower Turonian. Tortoise and crocodile bones and plant detritus are found with marine fossils in rocks of the upper Turonian. Of the foraminifers, Gaudryinella pseudoasiatica N. Byk. is the most characteristic, and, up till now, has been considered a guide fossil to the Senonian. However, the discovery of this form in association with upper Turonian pelecypods in Kassan-Tau and other places permits one to consider that the zone with Gaudryinella pseudoasiatica N. Byk. includes upper Turonian beds (although it may correspond in part to the lower Senonian). Mineralogically the deposits are similar, on the whole, to the rocks of the lower Turonian. They are characterized by variability along the strike and by a predominance of fine- and medium-grained well-sorted sands and sandstones. During upper Turonian time continental and marine conditions of sedimentation alternated in the northern part of the Bukhar depression. Sands and sandstones are the dominant kinds of rocks among the Turonian deposits. A study of grain size, chemistry, and

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15-57-12-16790

The Upper Cretaceous Deposits (Cont.)

relationship points to repeated local erosion. The author furnishes lists of the species identified in the Senonian rocks. The mineral content is also described. The Senonian deposits in the northern part of the Bukhar depression are shallow-water, littoral-marine formations. Danian deposits are not present. According to general considerations, Danian gypsum beds underlie the Bukhara series in the steppe zone of the Bukhara depression. The distribution of the gypsum indicates a regressive sea and the formation of isolated lagoons. All the formations of the Upper Cretaceous are characterized by an increase in thickness from north to south (except for the belts along the foothills of the Zirabulak-Ziaetdinskiye Mountains).

Card 6/6

V. A. Levitskaya

SULEYMANOV, I.S.

Stratigraphy of Mesozoic coal beds in western Uzbekistan.
Dokl. AN SSSR 110 no.3:434-436 S '56. (MLRA 9:12)

1. Predstavleno akademikom N.S. Shatskim.
(Uzbekistan--Coal geology)

SULEYMANOV, I.S.

New genus and two new species in the family Verneuilinidae.
Dokl.AN Uz.SSR no.12:19-21 '58. (MIRA 12:1)

1. Institut geologii AN UzSSR. Predstavleno akademikom AN
UzSSR A.S.Uklonskim.
(Kyzyl-Kum--Foraminifera, Fossil)

BABAYEV, A.O.; SULEYMANOV, I.S.

Campan sediments in certain regions of western Uzbekistan. Uzb.
geol. zhur. no.1:57-61 '59. (MIRA 12:7)

1. Institut geologii AN UzSSR.
(Uzbekistan--Geology, Stratigraphic)

SULEYMANOV, I.S.

New genus and species of foraminifers from the family Ammodiscidae.
Dokl. AN Uz. SSR no.7:19-20 '59. (MIRA 12:10)

1. Institut geologii AN UzSSR. Predstavleno akad. AN UzSSR A.S.
Uklonskim.

(Kyzyl-Kum--Foraminifera, Fossil)

SULEYMANOV, I.S.

Microstructure of the test wall in some textulariid species with
reference to their paleoecology. Vop.mikropaleont. no.3:37-40
'60. (MIRA 13:9)

1. Krasnokholmskaya ekspeditsiya, Tashkent.
(Kyzyl Kam-Foraminifera, Fossil)

SULEYMANOV, I.S.

Phylogeny of the series Gaudryina-Gaudryinella. Vop. mikropaleont.
no.4:83-88 '60. (MIRA 14:5)

1. Krasnokholmskaya ekspeditsiya, Tashkent.
(Soviet Central Asia--Foraminifera, Fossil)

SULEYMANOV, I. S.

Cand Agr Sci - (diss) "Periods of the introduction of super-phosphate under the cotton plant in swamp-meadow and meadow soils of the Samarkandskaya Oblast." Tashkent, 1961. 20 pp; (Ministry of Agriculture Uzbek SSR, Tashkent Agr Inst); 250 copies; price not given; (KL, 7-61 sup, 253)

SULEYMANOV, I.S.

First find of a fossil representative of the genus Arenaparrella
(Foraminifera). Paleont.zhur. no.1:159-160 '62. (MIRA 15:3)

1. Krasnokholmskaya ekspeditsiya Ministerstva geologii i okhrany
nedr SSSR, Tashkent.
(Zerabulak Mountains--Foraminifera, Fossil)

SULEYMANOV, I. S.

New Late Cretaceous species of the genus *Caucasina*. Paleont.
zhur. no.2:163-164 '62. (MIRA 15:10)

1. Krasnokholmskaya ekspeditsiya Ministerstva geologii i
ekhrany neдр SSSR, Tashkent.

(Foraminifera, Fossil)

SULEYMANOV, I.S.

New species of agglutinated Foraminifera of the family
Textulariidae. Paleont. zhur. no.2:138-141 '63. (MIRA 16:8)

1. Ministerstvo geologii i chernykh nedr SSSR.
(Foraminifera, Fossil)

ILFMANOV, I. A.

New agglutinated foraminifers from the Paleogene of the central
Kyzyl Kum. Paleont. zhur. no. 4: 38-44 '64. (MIRA 18:3)

1. Gosudarstvennyy geologicheskii komitet SSSR.

ARAPCVA, N.D.; SULEYMENOV, I.S.

New species from the family Textularidae (foraminifers).
Nauch. trudy TashGU no.249. Geol. nauki no.21:228-229 '64.
(MIRA 18:5)

SULEYMANOV, K., fel'dsher.

Additional remarks on the formulation of the work plan of the Feldsher-Midwife
Station in the village. Fel'd.i akush. no.10:52 0 '53. (MIRA 6:10)

1. Kolkhoz Aksu Kustanayskoy oblasti.

(Medicine, Rural)

VYZGO, M.S.; SULEYEV, R.A.; YUSENOVA, R.Kh.

Concerning the reinforcement of piled rock behind the apron.
Izv. AN Kazakh. SSR. Ser. energ. no.1:65-76 '61. (MIRA 14:12)
(Dams)

SULEYMANOV, K.S.

Etiology, pathogenesis, and clinical aspects of (systemic)
lupus erythematosus. Izv. AN Uz. SSR. Ser. med. no. 5: 29-37
'58. (MIRA 12:5)

1. Tashkentskiy gosudarstvennyy meditsinskiy institut,
Kafedra kozhnykh i venericheskikh bolezney.
(LUPUS)

SULEYMANOV, K.S.

Nervous system function in lupus patients during treatment.
Med. zhur. Uzb. no. 6:45-50 Je '58. (MIRA 13:6)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. - prof. A.A. Akovbyan) Tashkentskogo gosudarstvennogo meditsinskogo instituta i kafedry kozhnykh i venericheskikh bolezney (zav. - chlen-korrespondent AN SSSR, deystvitel'nyy chlen AMN SSSR O.N. Podvysotskaya) Leningradskogo meditsinskogo instituta imeni I.P. Pavlova.

(NERVOUS SYSTEM)

(LUPUS)

(ULTRAVIOLET RAYS--PHYSIOLOGICAL EFFECT)

SULEYMANOV, K.S.

Complications occurring in treating patients affected by lupus erythematoses with anti-infectives and other preparations. Dokl. AN Uz. SSR no.6:63-66 '58. (MIRA 11:9)

1. Tashkentskiy gosudarstvennyy meditsinskiy institut. Predstavleno akademikom AN UzSSR A. Yu. Yunusovym. (LUPUS)

AKOVBYAN, A.A., prof.; SULEYMANOV, K.S., kand.med.nauk

Treatment of some kinds of dermatosis with ACTH. Med. zhur. Uzb. no.9:
13-17 S '61. (MIRA 15:2)

1. Iz kafedry kozhnykh bolezney (zav. - prof. A.A.Akovbyan) Tashkent-
skogo gosudarstvennogo meditsinskogo instituta.
(SKIN-DISEASES) (ACTH)

SULEYMANOV, K.S., dozent

Serum protein fractions in sensitized rabbits (in the dynamics of
Arthus' phenomenon) and the influence of ACTH exerted on them.
Nauch. trudy SamMI 21:140-151 '62. (MIRA 17:5)

1. Iz kafedry kozhnykh bolezney Samarkandskogo meditsinskogo
instituta imeni Pavlova.

SULEYMANOV, K.S., dotsent:

Serum proteins in patients with diffuse psoriasis during the process of treatment. Nauch. trudy SamMI 23:139-146 '63
(MIRA 17:3)

Serum protein fractions in pemphigus and Dohring's dermatitis in the treatment dynamics. Ibid. 147-157

Serum proteins in tuberculosis of the skin during the process of treatment. Ibid.: 158-168

1. Iz kafedry kozhnykh bolezney Samarkandskogo meditsinskogo instituta.

SULHYMANOV, M.

School of progressive methods of management. Grashd. av. 14 no.4:
31 Ap '57. (MIRA 10:6)

1. Nachal'nik planovogo otdela Ukrainskego territorial'nogo upravleniya
Grashdanskogo vozdukhnoye flota.
(Aeronautics, Commercial)

84-58-2-10/46

SULEYMANOV, M.

AUTHOR: Lyakhovetskiy, M., and Suleymanov, M. (Kiyev)

TITLE: Air Service in the Economic Areas of the Ukraine (Aviatsionnoye obsluzhivaniye ekonomicheskikh rayonov Ukrainy)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 2, p 7 (USSR)

ABSTRACT: The authors state that the recent elimination of a number of ministries and the creation of economic areas in the Ukrainian SSR has resulted in a new pattern of passenger and freight traffic which also involves air routes. New routes have been created between the Ukrainian cities of Kiyev, Khar'kov, and Odessa, and the Russian industrial centers of Sverdlovsk, Kuybyshev, and Gor'kiy. Within the Ukrainian SSR, a number of new routes have been created, and some routes changed. The centers of all Ukrainian economic areas are now connected with Kiyev and Moscow. Air services are established between Kiyev and all oblast' centers of the Republic. The air networks of economic areas, which comprise several oblast's, has been expanded as a result of increased flying stock. Thus Poltava and Sumy are served from Khar'kov, Vinnitsa, Kirovograd, Krivoy Rog - from Kiyev, Lutsk, Rovno, Ternopol - from

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84-58-2-10/46

Air Service in the Economic Areas of the Ukraine

L'vov, Droboych - from Stanislav. The local networks to connect cities with the rayons, were considerably expanded by establishing many routes in 1957 which transported over 50,000 passengers. On some of these routes, as those from Khar'kov to Volchansk and to Velikiy Burluk, heavy aircraft had to be used in order to cope with the traffic demand. The upsurge of traffic is partly due to reduction of fares; flights from Kiyev to 17 oblast' centers, for instance, cost the same as in an upholstered railroad coach, or in some cases even less. The reduction of fares is still in progress. The development depends much on a closer cooperation between the aviation units and Soviets of National Economy of the Economic Areas. Conferences of Aviation and Economy representatives have taken place in all big cities, such as those in Chernovtsy, Stanislav, Odessa, and Dnepropetrovsk.

AVAILABLE: Library of Congress

Card 2/2 1. Air transportation - USSR

SOV/84-58-4-17/48

AUTHORS: Matviyenko, A., Candidate of Economic Sciences,
Suleymanov, M., Chief, Department of Economics and Planning,
Banadik, A., Engineer-Economist, and
Brykalov, V., Engineer (Kiyev)

TITLE: Advantages of Cooperation Between Repair Establishments
(Vygody kooperirovaniya remontnykh predpriyatiy)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 4, p 18 (USSR)

ABSTRACT: The authors refer to the duplication and inadequate utilization of facilities and premises existing at the the Aircraft Repair Bases (ARB) and the Aircraft Maintenance Workshops (IERM) of the same airport. A redistribution of tools and equipment is advocated to reduce the IERM to pure maintenance work. The ARB, on the other hand, should take over all repair work. In connection with the introduction of new flying equipment, a merger of the IERM and the ARB into a single "technical base" is suggested for the future. Two diagrams accompany the text, showing the comparative utilization of premises and equipment in the IERM and ARB of the same airport.

Card 1/1

1. Aircraft--Maintenance 2. Airports--Organization

SOV/84-58-10-48/54

AUTHORS: Yavorskiy, G.; Suleymanov, M., Kiyev

TITLE: Supply System Improved (Snabzheniye uluchshilos')

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 10, p. 38 (USSR)

ABSTRACT: The Ukrainian Administration of the GVF (Civil Air Fleet) experimented in combining the operation of warehouses of units, repair shops, as well as loading and unloading services at the Kiyev airport. The measure proved so effective after a brief experiment that the Main GVF Administration consented to the extension of the system and combine the administrative service supply with all Kiyev units. Operating under the chief at the joint base are now a chief engineer in charge of jet technique and the following departments: plane engines and spareparts; electrical and radio supplies, maintenance of plane equipment; fuel and lubricating materials; motor vehicle transportation and mechanization facilities. The base will also have its planning and accounting departments, a central warehouse and a dispatch office. Supervision over the specialized supply sectors was entrusted to skilled engineers and technicians.

Card 1/1

SULHYMANOV, M.K.; PASHALY, N.V.

Lithology of Quaternary deposits in the northeastern region of the Baku Archipelago, Dokl. AN Azerb.SSR 12 no.7:471-478 '56.

(MIRA 9:10)

1. Predstavleno akademikom Akademii nauk Azerbaydzhanskoy SSR M.A. Kashkayem.

(Baku Archipelago—Geology, Stratigraphic)

SULEYMANOV, M.M.

Creating an efficient design of slush-pump piping manifold for drilling extra deep wells. Azerb. neft. khoz. 37 no.1:18-20 Je '58.
(Oil well pumps) (MIRA 11:6)

SULHYMANOV, M.M.

Effect of air volume in a compensator on the fluctuations of pressure
and of slush pumps in an injection system. Azerb. neft. khoz. 37 11:
25-27 N '58. (MIRA 12:3)
(Oil well pumps)

SULEYMANOV, M. H.: Master Tech Sci (diss) -- "Investigation of the bracing for drill pumps used in ultra-deep drilling". Baku, 1959. 18 pp (Min Higher Educ USSR, Azerb Order of Labor Red Banner Industrial Inst im M. Azizbekov), 150 copies (KL, No 12, 1959, 129)

KRAVCHENKO, S.P., dotsent, kandidat tekhnicheskikh nauk; SULEYMANOV, M.S.,
gornyy inzhener.

New method of upraise driftage. Gor.shur. no.6:10-13 Je '56.
(MLRA 9:8)

1. Dzhezkazganskoye rudoupravleniye (for Kravchenko); 2. Kazakh-
skiy gorno-metallurgicheskiy institut (for Suleymanov).
(Dzhezkazgan--Mining engineering)

USSR/Farm Animals. The Swine

Q-4

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 50079

Author : Shurmukhin, A.F., Markin Ye.F., ~~Suleymanov M.S.~~

Inst : Sverdlovsk Farm Inst. tute

Title : The Effect of Darkening of the Barn Upon the Intensity of
Fat Deposition in Swine

Orig Pub : Tr. Sverd. s.-kh. in-ta, 1957, 1, 203-205

Abstract : No abstract

Card : 1/1

~~SECRET~~
SULLEYMANOV, M.S.

Teaching seventh grade students how to use sprayers. Politekh.
obuch.no.12:51-53 D '57. (MIRA 10:12)

1. Srednyaya shkola No.10, stantsiya Agryz, Kazanskoy shelesnoy
doregi.

(Spraying and dusting equipment) (Agriculture--Study and teaching)

PAPORTSKIY, L.A.; DAVYDOV, S.A.; LISITSYN, G.T.; URUMOV, T.M.; SAPARGALIYEV, M.S.; SULEYMANOV, M.S.; AN, M.Ch.

Comment on the article by O.A.Baikomurov and A.F.Kovrigo on "Ways of reducing labor consuming tasks in stopping at the Dzhezkazan Mine." Gor.zhur. no.3:77 Mr '60. MIRA 14:5)

1. Proizvodstvenno-eksperimental'noye upravleniye Soyuzvzryvroma, Moskva (for Paportotskiy, Davydov). 2. Nachal'nik buro-vzryvnykh rabot Dzhezkazganskogo rudoupravleniya (for Lisitsyn). 3. Nachal'nik shakhty no.51 Dzhezkazganskogo rudnika (for Urumov). 4. Nachal'nik burovnykh rabot shakhty no.51 Dzhezkazganskogo rudnika (for Sapargaliyev). 5. Zamestitel' glav.inzh. shakhty no.51 Dzhezkazganskogo rudnika (for Suleymanov). 6. Starshiy inzh. Instituta gornogo dela AN KazSSR (for An).

(Dzhezkazgan—Stopping (Mining)
(Baikomurov, O.A.) (Kovrigo, A.F.)

SULEYMANOV, M.S., mladshiy nauchnyy sotrudnik

Method for controlling the ground beetle *Zabrus tenebriodes*.
Zashch. rast. ot vred. i bol. 6 no.9:25 S '61. (MIRA 16:5)

1. Dagestanskiy nauchno-issledovatel'skiy institut sel'skogo
khozyaystva, g. Makhachkala.

(Daghestan--Ground beetles--Extermination)
(Daghestan--Wheat--Diseases and pests)

SULEYMANOV, M.S.; SHEIN, D.V.

The quality of the ores of nonferrous metals and the profitability of production. Gor. zhur. no.1:28-31 Ja '64. (MIRA 17:3)

1. Upravleniye Vostochno-Kazakhstanskogo okruga Gosudarstvennogo komiteta pri Sovete Ministrov Kazakhskoy SSR po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.

SULEYMANOV, M.M., inzh.

Use of aeronautics in agriculture. Mashinostroenie no.4:
163-105 Cl-Ag '64. (MIRA 17-10)

SULEYMANOV, H.M.

Cauchy problem for an infinite system of linear partial differential equations in a class of generalized functions. Izv. AN Azerb. SSR. Ser. fiz.-mat. i tekhn. nauk no.5:21-35 '59.

(MIRA 13:3)

(Differential equations, Partial)

SULAYMANOV, N.M.

Cauchy problem for an infinite system of linear partial differential equations in a class of generalized functions in case of systems parabolic according to Shilov. Izv. AN Azerb. SSR. Ser.fiz.-mat. i tekhn. nauk no.4:55-63 '60. (MIRA 14:3)
(Differential equations, Partial)

Investigation of the solution of Cauchy's problem for an infinite system of linear differential equations in a class of generalized functions in the case of hyperbolic systems and systems correct according to Petrovskii. Dokl. An Azerb. SSR 16 no. 12:1147-1153 '80.
(MIRA 14:2)

3. Institut matematiki i mekhaniki AN AzerSSR. Predstavleno akademikom AN AzerSSR Z.I. Khalilovym.
(Differential equations, Linear)

L 11120-63 EWT(d)/FCC(w)/EDS AFFTC IJP(C)

ACCESSION NR: AP3001511

S/0233/63/000/001/0021/0027

AUTHOR: Suleymanov, N. M.

TITLE: Correct boundary-value problems for operator equations in a half space in the class of (abstract) generalized functions

SOURCE: AN AzerbSSR. Izv. Seriya-fiziko-matematicheskikh i tekhnicheskikh nauk, no. 1, 1963, 21-27

TOPIC TAGS: boundary-value problems

ABSTRACT: An existence and uniqueness theorem is stated for the operator equation shown in the enclosure, and it is demonstrated that as t tends to infinity the solution increases faster than an exponential function of t . Orig. art. has: 19 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 12Jun63

ENCL: 01

SUB CODE: 00
Card 1/1

NO REF SOV: 007

OTHER: 000

SULEYMANOV, N.M.

Analysis of solutions to Cauchy's problem for enumeration systems
of partial linear differential equations in a class of generalized
functions. Trudy Inst. mat. i mekh. AN Azerb. SSR 2:133-141 '63.
(MIRA 16:10)

SULEYMANOV, Pasha Samed

[Specialization as an important factor in increasing the production of farm products] Ikhtisaslashma kend teserrifat mehsullarynyn artyrylmasynda muhum amildir. Baky, Azerneshr, 1965. 32 p. [In Azerbaijani] (MIRA 18:11)

SULEYMANOV, R. G., Cand Tech Sci -- (diss) "Study of the ^{resistance} ~~existence~~
of soils ^{as a function of} ~~depending on~~ the parameters λ of the share and plow body."
Minsk, 1958. 11 pp (Acad Sci Belorussian SSR, Department of Phys-
Math and Tech Sci), 100 copies (KL, 15-58, 116)

- 48 -

SULEYMANOV, S

USSR/Cultivated Plants - Grains.

M-2

Abs Jour : Ref Zhur - Biol., No 20, 1958, 91602

Author : Suleymanov, S.

Inst : -

Title : The Development and Spread of Winter Wheat Root Systems
in Relation to Methods of Soil Treatment.

Orig Pub : Sots. s. Kh. Azerbaydzham, 1957, No 8, 27-29.

Abstract : The investigations were carried out by Lenkoransk Experimental Station in 1954-1956 on non-irrigated lands. The spreading of winter wheat roots was studied in different soil conditions with different preparation of the soil. The most uniform distribution of root mass and the highest yield of winter wheat was obtained on the black fallow with a deep underplowed layer.

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- 17 -

RYAKHOVSKIY, V.; RAGIMOV, Z., kand. biolog. nauk; SULEYMANOV, S., mladshiy nauchnyy sotrudnik; SHVETSOVA, A., dotsent; SEME NOV, A., assistant; GROMOVA, A., kand. biolog. nauk; SELIN, I., nauchnyy sotrudnik; LAZHAUNIKAS, Ye.; MELESHKO, R.; PREOBRAZHENSKIY, V., starshiy prepodavatel'

To the attention of a plant protector. Zashch. rast. ot vred. i bol.
10 no.6:40-43 '65. (MIRA 18:7)

1. Zaveduyushchiy otdelom zashchity rasteniy Luganskoy sel'skokhozyaystvennoy opytnoy stantsii (for Ryakhovskiy). 2. Azerbaydzhanskiy nauchno-is-sledovatel'skiy institut zashchity rasteniy, Kirovabad (for Ragimov, Suleymanov). 3. Omskiy sel'skokhozyaystvennyy institut (for Shvetsova, Semenov). 4. Otdel zashchity rasteniy Smolenskoy sel'skokhozyaystvennoy opytnoy stantsii (for Selin). 5. Zaveduyushchiy Tel'manskim punktom signalizatsii i prognozov, Karagandinskaya oblast' (for Lazhaunikas). 6. Zaveduyushchaya Vitebskim punktom signalizatsii i prognozov (for Meleshko). 7. Buryatskiy sel'skokhozyaystvennyy institut (for Preobrazhenskiy).

SULEYMANOV, S., red.; KOTELEVSKAYA, G., otv. za vypusk; AKHMEDOV, S.,
tekhn.red.

[Achievements of Soviet Azerbaijan for 40 years in figures;
statistical collection] Dostizhenia Sovetskogo Azerbaidzhana
za 40 let v tsifrakh; statisticheskii sbornik. Baku, Azerbai-
dzhanskoe gos.izd-vo, 1960. 258 p. (MIRA 13:8)

1. Azerbaijan S.S.R. Statisticheskoye upravleniye.
(Azerbaijan--Statistics)

SULEYMANOV, S., red.; KOTELEVSKAYA, G., otv. za vypusk; ABDINZADE, Kh.,
tekhn. red.

[The development of the economy of the Azerbaijan S.S.R. and improvement of the population's material and cultural standard of living; statistical collection] Razvitie narodnogo khoziaistva Azerbaidzhanskoi SSR i rost material'nogo i kul'turnogo urovnia zhizni naroda; statisticheskii sbornik. Baku, Azerbaidzhanskoe gos. izd-vo, 1961. 257 p. (MIRA 15:7)

1. Azerbaijan. Tsentral'noye statisticheskoye upravleniye. 2. Nachal'nik Tsentral'nogo statisticheskogo upravleniya pri Sovete Ministrov Azerbaydzhanskoy SSR (for Suleymanov).
(Azerbaijan--Statistics)

AUTHOR: Suleymanov, S.A., Engineer.

94-4-5/25

TITLE: Use of the Secondary Steam of Condensate Tanks
(Ispol'zovaniye vtorichnogo para kondensatnykh bakov)

PERIODICAL: Promyshlennaya Energetika, 1958, vol 13, No.4,
p.13 (USSR).

ABSTRACT: In oil refineries, condensate is often delivered to collecting tanks at pressures of the order of 1 - 2 atm. In tanks operating at atmospheric pressure, secondary steam is boiled off and is lost to the atmosphere. At the Novo-Bakinsk refinery, this loss was more than 2 tons/hour. Accordingly, the secondary steam was passed to a steam/water heat exchanger, the condensate from which is pumped back to the condensate tank. In summer, the steam is cooled by seawater, which is discharged, but in winter, the heat is used for central-heating. Considerable economies have resulted from the scheme, brief details of which are given.

AVAILABLE: Library of Congress
Card 1/1

SULEYMANOV, S.A., aspirant

Comparative study of Babesiella ovis strains. Veterinariia
41 no.11:45-47 N '64. (MIRA 18:11)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.

SULEYMANOV, S. M.

Zairi, M. D. and Suleymanov, S. M. "On lode formations in the
Daliag intrusion," Doklady (Akad. nauk Azerbaydzh.SSR)
1949, No. 4, p. 144-46, Resume in Azerbaijani

SO: U-5241, 17 December 1953, (Letopis 'Zhurnal 'nykh Satacy, No. 26, 1949)

15-57-1-315
Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1,
p 45 (USSR)

AUTHORS: Suleymanov, S. M., Bayramalibeyli, E. G.

TITLE: Magnetite Tuffaceous Sandstones on the Northeastern
Slopes of Lesser Caucasus (O magnetitovykh tufopes-
chanikakh severo-vostochnykh sklonov Malogo Kavkaza-
in Azerbaydzhan)

PERIODICAL: Uch. zap. Azerb. un-ta, 1955, Nr 11, pp 31-36

ABSTRACT: Magnetite Tuffaceous sandstones occur on the north-
eastern slope of the Nuzgerskiy Plateau and in the
region of the Dashkesan mining district. These
formations are characterized by abrupt facial changes.
Within a small distance from one another lie magnetite
tuffaceous sandstones, tuff breccias, tuff conglom-
erates and tuffs replacing one another and locally
passing into agglomeritic lavas. The content of ore

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15-57-1-315

Magnetite Tuffaceous Sandstones (Cont.)

grains in the rocks is shown in the Table below. Origin of the magnetite tuffaceous sandstones of this region is closely associated with the simultaneous accumulation of sediments transported from dry land and containing absorbed magnetite grains, and the simultaneous deposition of the products of a subaquatic extrusion. The original source of magnetite and titanomagnetite grains of this district lies probably in the pre-Bathonian magnetite locations which most likely, have not been uncovered by contemporary erosion.

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Magnetite Tuffaceous Sandstones (Cont.)

15-57-1-315

COMPONENTS, percent	<u>TUFFACEOUS SANDSTONES</u>	
	Rich in Fe_3O_4	Poor in Fe_3O_4
Metallic:		
Magnetite	34-50	21-30
Titanomagnetite	5-8	3-5
Limonite	1-2	1-2
Hematite	Rare Grains	Rare Grains
Pyrite	" "	" "
Chalcopyrite	" "	" "

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Magnetite Tuffaceous Sandstones (Cont.)

15-57-1-315

Nonmetallic:

Quartz

Rock Fragments

Rock Cement

25-35

8-12

7-13

45-50

10-13

10-13

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S. P. B.

SULEYMANOV, S.M.

Role of plutonic tectonics in the formation of magmatic masses in the
central and northeastern part of the Lesser Caucasus. Uch. zap. AGU
no.9:15-23 '56. (MIRA 10:4)
(Caucasus--Geology, Structural)

SULEYMANOV, S.M.

Conditions for the formation of magmatic complexes in the central
and northeastern parts of the Lesser Caucasus. Uch. zap. AGU no.12:
35-42 '56. (MLRA 10:4)

(Caucasus--Geology, Structural)

SULEYMANOV, S.M.
SULEYMANOV, S.M.

Basic features in the geological structure and metallogeny of the
northeastern part of the Lesser Caucasus. Uch. zap. AGU no.4:55-63
'57. (MIRA 11:1)

(Caucasus—Ore deposits)

SULEYMANOV, S.M.; BEKTASHI, S.A.

New methods for making the diagrams of joints. Uch. zap. AGU.
Ser. geol.-geog. nauk no.6:45-60 '60. (MIRA 16:7)

(Joints (Geology))

STEFANOV, S.M.

Defence of dissertations at the Azerbaijan University.
Izv.vys.ucheb.zav.; geol.i razv. 3 no.2:160 F '60. (MIRA 15:5)
(Azerbaijan--iron ores)

SULEYMANOV, S.M.

Geological conditions governing the distribution of asbestos deposits
in the ophiolite zone of the Lesser Caucasus. Uch.zap.AGU.Ser.geol.-
geog.nauk no.5:15-19 '61. (MIRA 16:9)

Subj: AZERBAI D. A.
Author: Shcherbakov, D. I.
Card 1/4

AUTHOR: Azizbekov, Sh. A.

TITLE: The Third All-Union Conference on regularities in the formation and distribution of endogenous mineral resource deposits

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, no. 1, 1963, 126 - 128

TEXT: The Conference was held in Baku from September 18 to 23, 1962; it was attended by 455 representatives from scientific and industrial geological organizations including 24 Academicians and Corresponding Members of AS USSR and AS of various republic, 49 Doctors-Professors and 164 Candidates of Geological and Mineralogical Sciences. The Conference was opened by Academician D. I. Shcherbakov, secretary of COON, AS USSR. The program of the Conference was divided into three main groups: a) regularities in the formation and distribution of endogenous deposits in the Caucasus; b) regularities in the formation and distribution of endogenous deposits of other folding regions of the Alpine cycle; c) general problems of metallogeny. In group a) reports on basic features

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8/011/63/000/001/002/002
A006/A101

(21)

The Third All-Union Conference on...

S/011/63/000/001/002/002
A006/A101

of metallogeny and models of detailed metallogenic charts of the Caucasus were delivered by Sh. A. Azizbekov and R. N. Abdullayev (in Azerbaydzhan), S. S. Mkrtchyan (in Armenia), G. A. Tvalchrelidze and Yu. I. Nazarov (in Georgia) and V. I. Orobey (in the Northern Caucasus); V. I. Salimov reported on peculiarities in magmatism and metallogeny of the geosyncline and plateau stage in the evolution of the Western section of Northern Caucasus. Reports were delivered on magmatism and metallogeny in the Dashkesan ore region (M. A. Kashkay, M. A. Mustafabeyli) Southern Georgia (V. R. Nadiradze) the Sevan-Akera zone (S. M. Suleymanov) the Allaverdy-Bolina ore region (T. Sh. Gogishvili) and in the small Caucasian intrusives. G. S. Dzotsenidze reported on "Paleogenous volcanism in the Caucasus and metallogeny related to it"; V. N. Kotlyar on "Deposit types related to paleo-volcanism"; papers were delivered on pyrite deposits in the Somkhito-Karabakh and the Sevan-Akera zone (P. F. Sopko); Northern Caucasus (N. S. Skripchenko, V. I. Buzdze) the Chitbukhlu-Tanzutak ore region (S. Sh. Sarkisyan). Reports were read on polymetallic deposits in Northern Caucasus (A. M. Krasnovidova), North-West Caucasus (G. P. Kornev) and the Mekhmar ore field (N. V. Zaytseva). Other reports dealt with gold (N. Ye. Gukhman, D. G. Saliya) mercury (D. V. Abuyev) and rare metal (P. V. Mustafabeyli) mineralization. Group 2 included reports on

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SULEYMANOV, S.M.

Basic characteristics of metallogeny in the Gavan-Akera zone of
the Lesser Caucasus. *Zakonom.razm.polezn.issl.* 7:257-260 '64.
(MIRA 17:6)

1. Azerbaydzhanskiy gosudarstvennyy universitet.

SULEYMANOV, S.S., otvetstvennyy red.; KOTEL'VSKAYA, G.S., red.; KOGAN, N.M.,
tekhn. red.

[National economy of Azerbaijan; a statistical manual] Azerbaichan
SSR khalq teserrufaty; statistika kulliliaty. Narodnoe khoziaistvo
Azerbaikxhanskoi SSSR; statisticheskii sbornik. Baku, Gosstatizdat,
1957. 524 p. [In Azerbaijani and Russian]. (MIRA 11:7)

1. Azerbaijan. Statisticheskoye upravleniye.
(Azerbaijan--Statistics)

SULEYMANOV, Sh.Yu.

Innervation of the seminal vesicles in connection with the asymmetry of the pelvic plexus in newborn infants. Trudy KirgNOAGE no.2:125-127 '69. (MIRA 18:11)

1. Iz kafedry normal'noy anatomii (zav. - prof. N.N.Iarov)
Kirgizskogo gosudarstvennogo meditsinskogo instituta.

GRIGORYAN, N.A.; MEYANI, A.D.; SULEYMANOV, T.Kh.

Effect of the deflection of a turbine drill on the possible increase
of the deviation angle when drilling with an eccentric nipple.

Izv. AN Azerb. SSR. Ser. geol.-geog. nauk no.1:79-83 '64.

(MIRA 18:6)

SULEYMANOV, V.M.

Operative treatment of a congenital isolated volvulus of the
small intestine in a 2-day-old infant. Vest. khir. 93 no.11:
107 N '64. (MIRA 18:6)

1. Iz rodil'nogo otdeleniya Krasnodonskoy gorodskoy bol'nitsy
(galvnyy vrach - K.Ya. Korkishchenko).

SULEYMANOV, V.N., inzh.

Program for the calculation of the optimum distribution of reactive
power. Energ. i elektrotakh. prom. no.2:11-12 Ap-Je '65.

(MIRA 18:8)

J. D. DUNN, Jr., M.P.

State problem concerning the constitution of the water-11 boundary.
For. Aff. Verb. Rep. No. 11. (1961) (MIRA 18:6)

ACC NR: AR6037013

(A,N)

SOURCE CODE: UR/0181/66/005/011/3424/3426

AUTHOR: Gorban', I. S.; Gumonyuk, A. F.; Suleymanov, Yu. M.

ORG: Kiev State University im. T. G. Shevchenko (kiyevskiy gosudarstvennyy universitet)

TITLE: Energy and kinetic parameters of impurity nitrogen in silicon carbide crystals

SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3424-3426

TOPIC TAGS: silicon carbide, crystal impurity, nitrogen, impurity level, electron capture, capture cross section, thermoluminescence, luminescence spectrum, semiconductor band structure

ABSTRACT: This is a continuation of earlier investigations of the line spectrum of luminescent crystals α -SiC (6N) (FTT v. 7, 3694, 1965) where it was established that nitrogen forms three donor levels corresponding to three nonequivalent positions of the nitrogen atoms in the lattice. The present paper is devoted to an investigation of the energy and kinetic parameters of these levels, and to kinetic parameters such as cross sections for the capture of electrons by these levels. The required relations are determined from the variation of the thermoluminescence of these crystals as the nitrogen content is varied, and comparison of the changes in the thermoluminescence with the changes in the luminescence spectrum, which was shown in the earlier investigation to change from a band spectrum into a line spectrum with de-

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ACC NR: AP6037013

creasing nitrogen concentration. Low temperature thermoluminescence was investigated for three crystals, one containing nitrogen with a concentration (10^{18} cm^{-3}) for which the luminescence has a band spectrum, and two containing a lower concentration (10^{17} cm^{-3}), with a line spectrum. At low nitrogen concentration, the low-temperature thermoluminescence curves consisted of three bands, which can be related to thermal release of electrons from the different types of centers. The individual elementary thermoluminescence bands were separated by special heat treatment. This has made it possible to have the thermoluminescence intensity variation governed by only one of the elementary bands. This yielded for the distances of the three types of nitrogen levels to the bottom of the conduction band values 0.18, 0.21, and 0.24 eV, which coincided with those obtained earlier for the energy distances between the exciton width of the forbidden band and the spectral positions of the front lines of the spectrum. The corresponding values obtained for the cross section for the capture of electrons from the conduction band by the nitrogen centers are 5×10^{-19} , 2×10^{-19} , and $2 \times 10^{-19} \text{ cm}^2$. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 04Jun66/ ORIG REF: 003/ OTH REF: 004

Card 2/2

L 15735-66 EWP(o)/EWT(m)/T/EWP(t)/EWP(b) LJP(o) JD/WH
 ACC NR: AP6000896 SOURCE CODE: UR/0181/65/007/012/3694/3695
 AUTHORS: Gorban', I. S.; Mishinova, G. I.; Suleymanov, Yu. M.
 ORG: State University im. T. G. Shevchenko, Kiev (Gosudarstvennyy universitet)
 TITLE: Line and band spectra of luminescence in crystals α -SiC(6H)
 SOURCE: Fizika tverdogo tela, v. 7, no. 12, 1965, 3694-3695
 TOPIC TAGS: line spectrum, band spectrum, luminescence spectrum, silicon carbide, exciton, crystal
 ABSTRACT: The authors investigated the photoluminescence spectra of α -SiC(6H) with donor (nitrogen) concentrations 10^{17} -- 10^{19} cm⁻³ at 77 -- 90K. Two types of spectra were observed, one in the 'blue' region with a maximum near 2.65 ev and with some irregularities near 2.2 ev for n-type crystals with donor concentration 10^{18} -- 10^{19} cm⁻³, and with a line spectrum with a maximum at 2.45 ev ('green' region) and a narrow-line structure near the 'blue' region. The blue band
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L 15735-66

ACC NR: AP6000896

2
has an irregular structure at the positions of the lines of the green band. It is suggested that the smearing of the line spectrum in the blue band occurs at sufficiently large nitrogen concentrations, when the interaction between the impurity centers cannot be neglected. The relative intensity of the line spectrum in the green band did not remain constant in different crystals, so that the green luminescence cannot be related to the nitrogen. The blue luminescence can be attributed to excitons localized on the ionized donors, and the green band to donor-accepted pairs produced by the nitron and the aluminum acceptor, as well as to phonon interaction. Authors thank I. G. Pichugin for supplying the crystals. Orig. art. has: 1 figure. ✓

SUB CODE: 20/ SUBM DATE: 23Jul65/ OTH REF: 001

Card

2/2

L 41022-66 ENT(m)/EXP(t)/ETI IJP(c) JD
ACC NR: AP6019651

SOURCE CODE: UR/0368/66/004/006/0516/0522

AUTHOR: Gorban', I. S.; Kaleynik, G. M.; Suleymanov, Yu. M.

ORG: none

TITLE: Optical spectra and electron transitions in crystals of gallium phosphide

SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 6, 1966, 516-522

TOPIC TAGS: gallium compound, gallium optic material, phosphide, optic crystal, optic spectrum, electron transition, electroluminescence

ABSTRACT: Investigations of the longwave absorption edge and of electroluminescence were carried out for GaP crystals having a linear structure at the fundamental absorption edge at low temperatures and those without such a structure ("pure" crystals). The characteristic parameters for "pure" crystals were determined from an analysis of the longwave fundamental absorption edge associated with indirect transitions into the exciton band and conduction band. The appearance of a discrete structure of the longwave absorption edge in crystals with a linear structure was due to exciton localization near impurities of unknown origin. This was confirmed by the presence of an intense green electromagnetic band at low temperatures. An analysis of the observed fine structure of absorption revealed an exciton dissociation energy

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UDC: 535.34

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653910002-4"

L 41022-66
ACC NR: AP6019651

of 0.021 ± 0.002 eV and an energy of 0.024 ± 0.002 eV of the phonon participating in the direct transitions. Localized excitons proved to be an effective channel of radiative transition in GaP crystals which was manifested in the spectrum of electroluminescence demonstrated at low temperatures. The fundamental significance of the results is that it is theoretically feasible to create an effective channel of radiative transitions in GaP crystals for which indirect transitions are characteristic. The authors thank I. Ryzhikov, A. Kruchinin, and Yu. Il'in for providing the specimens used in the investigations. Orig. art. has: 3 figures and 4 formulas.

SUB CODE: 07,11,20/ SUBM DATE: 12Feb65/ ORIG REF: 006/ OTH REF: 005

Card 2/2 hs

MAMEDOV, K.P.; SULEYMANOV, Z.I.; ZEYNALOV, V.Z.

Thermographic study of the process of selenium crystallization
by means of a multipoint electron potentiometer. Azerb.khim.zhur.
no.4:84-86 '65. (MIRA 18:12)

1. Institut fiziki AN AzSSR. Submitted March 23, 1964.

L 51511-65 EMT(1)/ENP(e)/EMT(m)/ENP(l)/EMF(n)-2/ENG(m)/NFR/T/ENF(t)/
EEC(b)-2/ENP(b) Ps-L/Pu-L IJP(c) JD/JG/JG/KT/WH
ACCESSION NR: AP5010763

UR/0181/65/007/00*/1276/1278

AUTHOR: Gorban', I. S.; Suleymanov, Yu. M.

TITLE: Relaxation of glow and adhesion processes in silicon carbide crystals

SOURCE: Fizika tverdogo tela, v. 7, no. 4, 1965, 1276-1278

TOPIC TAGS: silicon carbide, thermoluminescence, electroluminescence, phosphorescence, relaxation, carrier adhesion

ABSTRACT: Experiments are described on thermoluminescence and the temperature dependence of the electroluminescence and phosphorescence relaxation in n-type α -SiC(6H) crystals. The experiments show that the phosphorescence and the thermoluminescence occur frequently, especially in crystals of sufficiently high resistivity (10^2 -- 10^3 ohm-cm). Judging from the absorption spectra in the region of the impurity transitions, these crystals have no fewer impurities than those with the lower resistivity. Their conductivity was compensated to a considerable degree. Two types of crystals were encountered, in one type (high resistivity) there were observed two thermoluminescence maxima, one at 90--130K and the other at 240--250K. In the second type the low temperature maximum of thermoluminescence had a fine

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ACCESSION NR: AP5010763

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structure, and there was no high temperature maximum. The results are attributed to repeated adhesion, with the most likely impurity capable of producing the adhesion levels being nitrogen. It is proposed that the lowest temperature peak of thermoluminescence is connected with adhesion of holes. The relaxation of electroluminescence occurring in the region of a diffusion p-n junction energized with rectangular pulses of duration 100 μ sec in the forward direction was also investigated. The quenching of the glow was exponential with a time constant 0.4 μ sec and a corresponding activation energy 0.04 eV. It is deduced that along with recombination centers there are also shallow electron and hole traps and hole adhesion. Deep cooling causes the shallow electron and hole traps to turn into recombination centers. The authors thank I. V. Pyzhikov, T. G. Kmita, G. P. Lyman', and I. G. Pichugin for supplying the crystals and for reporting their characteristics. Orig. art. name: 2 figures and 1 formula.

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